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## **COMPREHENSIVE ZOOLOGY**

COMPILED BY

S. MARKOWSKI, D.Sc.

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### 1. Comprehensive Zoology

COMPILED BY

#### S. MARKOWSKI, D.Sc.

This section includes works that deal with more than one branch of Zoology, or that are of general interest to Zoologists. It is, therefore, not complete in itself as regards any one subject included in it. The special records complete each subject. A few memoirs included in the special records are repeated in this division. No attempt is made to include all works on Genetics or Physiology as these subjects are more suitably covered by the Imperial Bureau of Animal Genetics, Resumptio Genetica or Physiological Abstracts.

#### CONTENTS

~						PAGE	
1.	TITLES	•••	 	 	 	1	
II.	SUBJECT	INDEX	 	 	 	15	

#### I.- TITLES

- 1.—Abeloos, M. Croissance, morphogénèse et évolution. Année Biol. Paris (3) 25 11-12 1949 pp. 281-303.
- Achard, G. Le Professeur Fred Vles, 1885–1944. Bull. Soc. zool. Fr. 72 1948 pp. 125–127.
- 3.—Aldington, R. The Strange Life of Charles Waterton 1782–1865, London 1949 pp. 1–200 illust.
- 4.—Alverdes, F. Ganzheit und Summe in Physiologie und Tierpsychologie. Zool. Anz. Leipzig 136 1941 pp. 113–128.
- 5.—Alverdes, F. Ist der Mendelismus notwendigerweise atomistisch? Zool. Anz. Leipzig 137 1942 pp. 131–138.
- 6.—Anderson, E. Introgressive Hybridization, New York 1949 pp. 1–109.
- 7.—Andersson, K. A. Johan Hjort, 1869–1948. J. Conseil Copenhague 16 1949 pp. 3–8 fig.
- 8.—Andrade, E. N. da C. The presentation of scientific information. Proc. roy. Soc. London 197A 1048 1949 pp. 1-17 figs.

- 9.—[Anokhin, P. K.] AHOXHH, II. K. (On the deciding role of the internal factors in the historical development of the nervous function.) Advances mod. Biol. Moscow 1949 28 1 (4) pp. 11–46 10 figs. [In Russian.]
- 10.—[Anokhin, P. K.] AHOXMH, II. K. (Physiological gradient, reflex and functional system as factors of embryonic development of independent reactions.) J. Gen. Biol. Moscow 1949 10 5 pp. 361–385 2 figs. [In Russian.]
- 11.—Anon. Bibliography of the literature of the minor elements and their relation to plant and animal nutrition. 4th edn. 1 N.Y. 1948 pp. 1–1037.
- 12.—Archey, G. Ways and means in Zoology. Trans. Roy. Soc. N.Z. 1949 77 5 pp. 192–200.
- 13.—(Arshavski, I. A.) Аршавский, И. A. (Biogenetic rule in connection with the data of the physiology of ontogenesis.) Zool. J. Moscow 28 2 1949 pp. 115-124. [In Russian.]
- 14.—Bacci, G. Ricerche sulle zoocenosi bentoniche del golfo di Napoli. I. La secca di Benda Palummo. Pubb. Staz. zool. Napoli 20 1947 pp. 158-178.

- 15.—Bacq, Z. M. Vues générales sur la transmission neuro-musculaire chez les invertébrés. [C.R.] Ass. franç. Av. Sci. 1941 63 pp. 674–675.
- 16.—Badano, V. M. Museo de Entre Rios. Mem. Mus. Entre Rios 1947 No. 27 pp. 1–94 illustr.
- 17.—Badcock, R. M. Studies in stream life in tributaries of the Welsh Dee. J. Animal Ecol. 1949 18 pp. 193–208.
- 18.—Bainbridge, R. Movement of Zooplankton in Diatom gradients. Nature, London 163 4154 1949 pp. 910-911 fig.
- 19.—Baker, J. R. The cell-theory: a restatement, history, and eritique. Quart. J. micr. sci. London 90 1 1949 pp. 87-108 and 331.
- 20.—Baldi, E. Condizioni spaziali della distribuzione del limnoplancton. Boll. zool. Torino 14 1943 pp. 5–32 diagrams.
- 21.—Baldwin, E. An introduction to comparative biochemistry. Cambridge 1949 pp. xvi, 164, figs.
- 22.—Banks, E. A Naturalist in Sarawak. Kuching 1949 125 pp.
- 23.—Barber, H. N. Evolution in action. Aust. J. Sci. Sydney 1949 12 3 pp. 85–88.
- 24.—Barkley, A. Un esbozo de clasificación de los organismos. Rev. Fac. nacion. Agron. Medellin 10 34 1949 pp. 83-103.
- 25.—Barth, L. G. A.T.P.—Ase activity in embryonic development. Trans. N.Y. Acad. Sci. (2) 11 4 1949 pp. 108–112.
- 26.—Beccari, N. Morfogenesi filetica e morfogenesi embrionale del sistemo nervoso dei Vertebrati. Monit. zool. ital. Firenze 56 Suppl. 1948 pp. 22-32 figs.
- 27.—Beebe, W. High Jungle. New York 1949 379 pp. illust.
- 28.—Beebe, W. Llanos sanctuary, life around a Venezuelan water hole. Animal Kingdom, New York 52 1949 pp. 66-69.
- 29.—Beer, G. R. De. Edmund Davall's note book. Proc. Linn. Soc. London 161 1 1949 pp. 56-63.

- 30.—Beling, D. Der Einfluss des Wasserbaues auf die Tierwelt des Dnjepr-Stromschnellengebietes. Remane and others, Verh. Deuts. Zool. in Kiel 1948, Leipzig (Geest & Portig) 1949 pp. 172–180, 4 figs.
- 31.—[Bergoltz, V. M.] Бергольц, B. M. New data on the knowledge and the destination of the cancerogenous hydrocarbons and the mechanism of their action. Advances mod. Biol. Moscow 1949 27 3 pp. 385—406. [In Russian.]
- 32.—Bhatnagar, S. S. A Report of the Symposium on "Satpura Hypothesis of the distribution of Malayan fauna and flora to Peninsular India" held in Bombay at the Ordinary General Meeting of the National Institute of Sciences of India, on Saturday, the 6th August, 1948. Proc. Nation. Inst. Sci. India 15 2 1949 pp. 31–33.
- 33.—Bielig, H.-J. & Medem, G. F. Wirkstoffe der tierischen Befruchtung. Experientia, Basel 5 1 1949 pp. 11-30.
- 34.—Binder, E. L'accoutumance aux hormones thyréotrope et gonadotropes. Rev. suisse Zool. Genève 56 1949 pp. 97-241 figs.
- 35.—[Birstein, Y. A.] Бирштейн, Я. А. The conception of "relics" in biology. Zool. J. Moscow 26 4 1947 pp. 313-330. [In Russian.]
- 36.—[Birshtein, Y. A.] Бирштейн, Я. А. Some problems on the origin and evolution of fresh-water fauna. Advances mod. Biol. Moscow 1949 27 1 pp. 119–140. [In Russian.]
- 37.—Bodenheimer, F. S. & Rabinowitz, A. Timotheus of Gaza on Animals. Paris 1949 54 pp.
- 38.—Bounoure, L. Reproduction sexuelle et histoire naturelle du sexe. Paris 1947 207 pp. illust.
- 39.—Bourne, G. Marxist genetics. Brit. med. J. London No. 4591 1949 p. 28.
- **40.**—**Bouveignes**, O. de. Quelques allégories de l'Afrique. Zooleo, Leopoldville 1949 N.S. No. 3 pp. 9–12.
- 41.—Boyd, W. C. Systematics, evolution, and anthropology in the light of immunology. Quart. Rev. Biol. Baltimore 24 2 1949 pp. 102–108.

- 42.—Braestrup, F. W. and others. Vort Lands Dyreliv 1 Kobenhavn 1949 502 pp.
- 43.—(Braunshtein, A. E.) Браунштейн, A. E. The ways of L-triptophane transformations in the animal organisms and the function of vitamin B6 in it. C.R. Acad. Sci. Moscow N.S. 1949 65 5 pp. 715–718. [In Russian.]
- 44.—Breindl, V. Zur Frage der Kernlosen Erythrocyten bei niedere Vertebraten. Vest. ceskosl. zool. Spolnec, Praze 6-7 1939 pp. 575-579. [In Czech with German summary.]
- 45.—Breindl, V. Professor B. Štěpnička (1.X.1879–31.I.1945). Vest. ceskosl. zool. Spolec. Praze 10 1944 p. 45.
- 46.—Breindl, V. Prof. Dr. F. Vejdovský (1849–1939). Vest. ceskosl. zool. Spolec. Praze 10 1946 pp. 7-10.
- **47.—Breindl,** V. Prof. Dr. Jaromír Šámal (12.VII.1900–5.VI.1942). Vest. ceskosl. zool. Spolec. Praze **10** 1946 pp. 27–30.
- **48.—Breindl**, V. Dr. Václav Maule (1884–1845). Vest. ceskosl. zool. Spolec. Praze **10** 1946 pp. 46–47.
- 49.—Breland, O. P. Animal Facts and Fallacies. New York 1948 268 pp. illust.
- 50.—Bruce, J. R. The marine biological station at Port Erin. Rep. Mar. biol. Sta. Port Erin 1945-47 pp. 39-63.
- 51.—Brunelli, G. & Cannicci, G. Il Lago di Sabaudia (Paola). Boll. Pesca Piscicolt. Idrobiol. Roma 16 1940 pp. 35–54.
- **52.—Brunelli**, G. & Cannicci, G. Il Lago di Massaciuccoli. Boll. Pesca Piscicolt. Idrobiol. Roma **18** 1942 pp. 5–63 figs.
- 53.—Bruun, A. F. Et trawltraek i Guinea-Bugten. Dyr i Natur. Mus. Kobenhavn 1945–46 pp. 45–59 figs.
- 54.—Burma, B. H. Studies in quantitative Paleontology. II. Multivariate analysis—a new analytical tool for Paleontology and Geology. J. Paleont. Menasha, Wis. 23 1 1949 pp. 95–103.
- **55.—Burma**, B. H. The species concept: a semantic review. Evolution, Lancaster, Pa. 1949 **3** 4 pp. 369–370.

- **56.—Butterfield**, H. Origins of Modern Science 1300–1800, London 1949 pp. x, 1–217.
- 57.—Buzzati-Traverso, A. Unità biologiche elementari, selezione e differenziazione. Pubb. Staz. zool. Napoli 21 Supp. 1949 pp. 191–210.
- 58.—Bückmann, A. Carl Heinrici. Ber. deutsch. wiss. Kom. Meeresforsch. Stuttgart (N.F.) 11 1949 pp. 429-434.
- 59.—Cabrera, A. La zoologia en la edad media y el descubrimiento de nuevo mundo. An. Soc. Cient. argent Buenos Aires 147 4 1949 pp. 172–187 figs.
- 60.—Cain, A. J. Recent research in cytoplasmic Cytology. Oxford Sci. 1949 2 2 pp. 30-40.
- 61.—Calman, W. T. Classification of Animals. An introduction to zoological taxonomy, London 1949 pp. vii, 1–54.
- **62.—Cantuel,** P. Faune des Vertébrés du Massif Central de la France. Paris 1949 404 pp. illustr.
- **63.—Caspers,** H. Der tierische Befall am Holz der Helgoländer Seebrücke. Zool. Anz. Leipzig **136** 1941 pp. 1–8, 3 figs.
- 64.—Caspers, H. Ökologische Untersuchungen über die Wallentierwelt in Elbe-Ästuar. Remane and others, Verh. Deuts. Zool. in Kiel 1948, Leipzig (Geest & Portig) 1949 pp. 350–359 3 figs. 1 map.
- 65.—Caspers, H. Ernst Hentschel. Ber. deutsch. wiss. Kom. Meeresforsch. Stuttgart (N.F.) 11 1949 pp. 449–456.
- 66.—Cazier, M. A. & Bacon, A. L. Introduction to quantitative systematics. Bull. Amer. Mus. Nat. Hist. 93 5 1949 pp. 343–388 diagrams.
- 67.—Ceriotti, G. Enteramina e totatanza euteraminosimile splenica. Nota I.—Rapporti vasali spleno-gastrici. Arch. Biol. Liège 59 1948 pp. 225–252 figs.
- 68.—Chambers, R. Micrurgical studies on protoplasm. Biol. Rev. Cambridge 24 2 1949 pp. 246–265.
- 69.—Chopard, L. Le Mimétisme, Paris 1949 335 pp. illust.
- 70.—Clark, R. S. D'Arcy Wentworth Thompson. J. Conseil Copenhague 16 1949 pp. 9-13 fig.

- 71.—Colbert, E. H. Progressive adaptations as seen in the fossil record. Jebsen, G. L., Mayr, E. & Simpson, G. G., Genetics, Paleontology and Evolution, Princeton, N.J. 1949 pp. 390–402.
- **72.—Cole,** F. J. Bibliographical reflections of a biologist. Osiris, Bruges 1948 8 pp. 289–315.
- 73.—Cole, H. A. & Jones, E. W. K. Quantitative estimation of marine nanno-plancton. Nature, London 164 4173 1949 pp. 694-696 fig.
- **74.—Cooper,** J. O.- Report of the colouration of desert animals. Bull. Inst. égypte **30** 1949 pp. 37–46.
- **75.—Corti,** A. Ercole Giacomini. Monit. zool. ital. Firenze **56** 1948 pp. 108–109.
- 76.—Costello, D. P. Growth and development. Survey of Biol. Progr., N.Y. 1949 1 pp. 115–153.
- 77.—Cowles, R. B. Additional speculations on the role of heat in evolutionary process. J. Ent. Zool. Claremont, Cal. 41 1949 pp. 7–26.
- 78.—Creighton, H. B. Teaching biology today. Avery, G. S., Ed. Survey of Biol. Progress, N.Y., 1949 pp. 1-4.
- 79.—Dalcq, A.-M. La morphogénèse dans le cadre de la biologie générale. Verh. Schweiz. naturf. Ges. 1949 129 pp. 37–72.
- **80.—Damas,** H. La biologie lacustre équatoriale. [C.R.] Ass. franç. Av. Sci. **63** 1941 pp. 692–705.
- 81.—Dammerman, K. W. Het faunistisch onderzoek van de Noordoostpolder. Med. Comm. Faun. Zuiderzeepolders, Rotterdam 1 1949 pp. 1–52.
- 82.—Darling, F. F. Wild Life of Britain. London 1947 48 pp. illust.
- 83.—Darlington, C. D. The working units of heredity. Proc. 8th Internat. Congr. Genetics issued as Suppl. Vol. to Hereditas, Lund 1949 pp. 189–199.
- 84.—Darlington, C. D. Genetic particles. Endeavour, London 8 30 1949 pp. 51-61 figs.
- 85.—Darlington, C. D. & Mather, K. The Elements of Genetics, London 1949 pp. 446 1 pl. text-figs.

- 86.—David, A. Abbé David's Diary. Cambridge, Mass. 1949 302 pp. illust.
- 87.—Davis, D. D. Comparative anatomy and the evolution of vertebrates. Jepsen, G. L., Mayr, E. and Simpson, G. G., Genetics, Paleontology and Evolution, Princeton, N. J. 1949 pp. 64–89.
- 88.—Degener, O. Naturalist's South Pacific Expedition: Fiji. Nats.' S. Pac. Exped. Fiji, Honolulu 1949 pp. 1-301 illust.
- 89.—(Dementiev, G. P.) Дементьев, Г. П. Investigations on colour of vertebrates. III. The rule of climatic variations of colours in birds and mammals. Zool. J. Moscow 27 1 1948 pp. 47–52. [In Russian.]
- 90.—Dieuzeide, R. Etude d'un fond de pêche d'Algerié: La gravelle de Castiglione. Bull. Sta. Aquicult. Alger N.S. 1 1940 pp. 31-57 figs.
- 91.—Dietrich, W. O. Paläontologie und Abstammungslehre, N. Jahrb, Min. Geol. Paläont. Stuttgart B 2–3 1943 pp. 73–79.
- 92.—[Dionesov, S. M.] Дионесов, C. M. Effects of painful excitements. Advances mod. Biol. Moscow 1949 27 1 pp. 73-88. [In Russian.]
- 93.—Dobell, C. D'Arcy Wentworth Thompson. Obit. Not. Roy. Soc. London 6 18 1949 pp. 599-617.
- 94.—Dobrin, M. B. Recording sounds of undersea life. Trans. N.Y. Acad. Sci. (2) 11 3 1949 pp. 91-96.
- 95.—[Dogel, V. A.] Догель, B. A. Importance of parasitological data to resolve zoogeographical questions. Zool. J. Moscow 26 6 1947 pp. 481-492 2 figs. [In Russian.]
- 96.—[Dubinin, V. В.] Дубинин, В. Б. Alterations of the cervical region of vertebrates in phylogenesis and ontogenesis. J. Gen. Biol. Moscow 1949 10 2 pp. 42-75 5 figs. [In Russian.]
- 97.—Dudich, E. Zur Kenntnis der wirbellosen Tierwelt des Komitates Bars. Fragmenta fauna Hungarica 10 1947 pp. 94–113.
- 98.—Durchon, M. Une expérience naturelle: l'alimentation en eau de mer du Canal Caen a le mer, pendant deux ans et demi, et ses conséquences zoologiques. Bull. Soc. zool. Fr. 73 1948 pp. 66-70.

- 99.—Dymond, J. R. X. Zoology. Centennial Vol. Roy. Canad. Inst. Toronto 1949 pp. 108-120.
- 100.—Ehrenberg, K. Paläozoologie und Paläobiologie. Verh. 2001.-bot. Ges. Wien 80-81 1944 pp. 262-270.
- 101.—Evitt, H. W. R. Stereophotography as a tool of the paleontologist. J. Paleont. Menasha Wis. 23 5 1949 pp. 566-570 figs.
- 102.—Ferguson, F. F. & Jones, E. R., Jr. A survey of the shore-line fauna of the Norfolk Peninsula. Amer. Midl. Nat. Notre Dame 41 2 1949 pp. 436-446.
- 103.—Fill, W. Vorläufige Mitteilung über eine Versuchsanordnung zur Messung des Gasstoffwechsels während langer Zeiträume. Zool. Anz. Leipzig 136 1941 pp. 170–176.
- 104.—Fisher, R. A. The theory of inbreeding, Edinburgh 1949 120 pp.
- 105.—Florkin, M. Biochemical Evolution. Translated by S. Morgulis, N.Y. 1949 pp. 1-157 illust.
- 106.—Florkin, M., Houet, R. & Renwart, H. Sur le taux de l'ammoniémie dans les différents groupes animaux. [C.R.] Ass. franç. Av. Sci. 1941 63 pp. 684–685.
- 107.—Fox, H. M. Blood pigment. Endeavour, London 8 29 1949 pp. 43-47 figs.
- 108.—Frankenberger, Z. M.U. Dr. Vladimir-Janko (19. IX.1905–26. II. 1942). Vest. ceskosl. zool. Spolec. Praze 10 1946 pp. 21–23.
- 109.—Franz, H. & Leitenberger, L. Biologisch-chemische Untersuchungen über Humusbildung durch Bodentiere. Österr. zool. Z. Wien 1 1948 pp. 498–518.
- 110.—Fritsche, H. Tierseele u. Schöpfungsgeheimnis. Leipzig 1940 435 pp. illust.
- 111.—Gatenby, J. B. & Moussa, T. A. A. XVII. The dorsal root ganglion cell of the kitten with Sudan dyes and the Zernicke microscope. J. R. micr. Soc. London (3) 69 4 1949 pp. 185–199 figs.
- 112.—Gaw, H. Z. The status of biology in China. Amer. Scient. Burlington 37 2 1949 pp. 263–265.

- 113.—[Gayevskaya, N. S. and others.] Гаевская, Н. С. Checklist of the Fauna and Flora of the Northern Seas of the USSR 1948, Moscow 737 pp. illust. [In Russian.]
- 114.—Geiser, S. W. & B. T. Brief short-title list of published works on the history of science. Field & Lab., Dallas 1947 15 2 pp. 71–103.
- 115.—[Genes, S. G.] Генес, С. Г. Insuline and the hydrocarbon metabolism. Advances mod. Biol. Moscow 1949 27 3 pp. 443-460. [In Russian.]
- 116.—Gentilli, J. Phenology—a new field for Australian naturalists. West Aust. Nat. Perth 2 1 1949 pp. 15-20.
- 117.—Gibson-Hill, C. A. and others. Papers on the fauna of the Cocos-Keeling Islands. Bull. Raffles Mus. Singapore 1950 22 298 pp. illust.
- 118.—Giese, A. C. Activation of eggs, fertilization and early development as affected by ultra-violet rays. Amer. Nat. 1949 83 811 pp. 165-183.
- 119.—Gilbert, F. A. Mineral nutrition of plants and animals. Oklahoma 1948 pp. 1–131 illust.
- 120.—Gill, E. D. Prosopon, a term proposed to replace the biologically erroneous term ornament. J. Paleont. Menasha Wis. 23 5 1949 p. 572.
- 121.—[Gilyarov, M. S.] Гиляров, M. C. The role of the soil in the phylogenesis of land Invertebrates. Advances mod. Biol. Moscow 1949 27 3 pp. 325-344 2 diags. [In Russian.]
- 122.—Girton, R. E. Early Studies on protoplasm. Proc. Indiana Acad. Sci. 1949 58 pp. 268–273.
- 123.—Glass, B. The genes and gene Action. Avery, G. S., Ed. Survey of Biol. Progress, N.Y. 1949 pp. 15–57.
- 124.—Gloor, H. Embryonalentwicklung und Genetik. Vjschr. naturf. Ges. Zürich 94 1949 pp. 219–231.
- 125.—Godeaux, J. Réactions des muscles somatiques des invertébrés à l'intoxication par les corps thioloprives. Etude myographique. Physiol. comp. Oecol. Den Haag 1 1949 pp. 352–365.
- 126.—Goethe, F. Naturschutz und zoologische Wissenschaft. Remane and others, Verh. Deuts. Zool. in Kiel, 1948, Leipzig (Geest & Portig) 1949 pp. 490– 492.

- 127.—Goldschmidt, R. B. Heterochromatic heredity. Proc. 8th Internat. Congr. Genetics issued as Suppl. Vol. to Hereditas, Lund 1949 pp. 244–255.
- 128.—[Golubinski, І. N.] Голубинский, И. H. Variability of the caryotype and conception of genetically non homogeneous tissues. Advances mod. Biol. Moscow 1949 27 2 pp. 157–176 7 figs. [In Russian.]
- 129.—Gome e Sousa, A. Exploradores e naturalistas da fauna de Moçambique. Moçambique, Lourenço Marques 1949 No. 59 pp. 43–50 photogr.
- 130.—Gradwohl, R. B. H. & Kouri, P. Clinical Laboratory Methods and Diagnosis. 3 Parasitology and Tropical Medicine, St. Louis 1948 864 pp. illust.
- 131.—Grandjean, F. Sur les rapports théoriques entre écarts et mutations. C.R. Acad, Sci. Paris 228 22 1949 pp. 1675-1678.
- 132.—[Gratchev, I. I.] Грачев, И. И. On the reflexes from the milk gland. J. Gen. Biol. Moscow 1949 10 5 pp. 401-420 10 figs. [In Russian.]
- 133.—[Gratchev, I. I.] Грачев, И. И. On the reflexive regulation of lactescence. J. Gen. Biol. Moscow 1949 10 4 pp. 303-315. [In Russian.]
- 134.—[Greze, V. N.] Γρese, B. H. The anabiosis of the zoobentos of the Taimyr Lake and its productivity. Zool. J. Moscow 26 1 1947 pp. 3–8. [In Russian.]
- 135.—[Grigoryeva, T. A.] Григорьева, Т. A. On the sensitive innervation of the internal organs. Advances mod. Biol. Moscow 1949 28 1 (4) pp. 134–153. [In Russian.]
- 136.—Grote, H. Anton Reichenow zum Gedächtnis. Mitt. zool. Mus. Berlin 25 1942 pp. 338–359, 1 portrait.
- 137.—Guiart, J. & Jeannel, R. Emile-Georges Racovitza (1868–1947). Arch. Zool. exp. gén. Paris 86 1948 pp. 1–28.
- 138.—[Gurevitch, F. А.] Гуревич, Ф. А. Influence of Cyanophyceae on embryos of freshwater animals. C.R. Acad. Sci. Moscow N.S. 68 5 1949 pp. 939-940 fig. [In Russian.]
- 139.—Günther, K. Über Evolutionsfaktoren und die Bedeutung des Begriffs der "ökologischen Lizenz" für

- die Erklärung von Formenerscheinungen im Tierreichs. Festschrift von Erwin Stresemann Heidelberg (Carl Winter) 1949 pp. 23–54 8 figs.
- 140.—Haas, O. Nomenclatural notes. Species without a genus? J. Paleont. Menasha, Wis. 23 1 1949 p. 106.
- 141.—Hagmeier, A. Professor Dr. Helmuth Hertling. Ber. deutsch. wiss. Kom. Meeresforsch. Stuttgart 11 1944 pp. 67–72.
- 142.—Hama, T. On the inductive specificity of fresh and boiled tissues of vertebrates kidney and liver. Annot. zool. jap. 22 1944 pp. 165–172.
- 143.—Hancox, N. M. The osteoclast. Biol. Rev. Cambridge 24 4 1949 pp. 448-471.
- 144.—Hanström, B. Three principal incretory organs in the animal kingdom. Copenhagen 1947 62 pp. illust.
- 145.—Hare, C. E. The language of Field Sports. London 1949 pp. 1-276 illust.
- 146.—Harms, J. W. Zoobiologie für Mediziner u. Landwirte, Jena 1946 258 pp. illust.
- 147.—Harris, M. Specificity and mode of action of cytotoxins produced against alien transplants in rats. J. exp. zool. Philadelphia 107 1948 pp. 439-449 figs.
- 148.—Hastings, A. B. British Museum (N.H.) Econ. Ser. 7a 2nd Edit. 1948 49 pp. illust.
- 149.—Heberer, G. Über additive Typogenese. Remane and others, Verh. Deuts. Zool. in Kiel 1948, Leipzig (Geest & Portig) 1949, pp. 25–31 1 fig.
- 150.—Heberer, G. Was heisst heute Darwinismus? Göttingen 1949 pp. 1-48.
- 151.—Hediger, H. Kleine Tropen-Zoologie. Basel 1948 182 pp.
- 152.—Hefford, A. E. Oceanography of the New Zealand seas. Trans. Roy. Soc. N.Z. 1949 77 5 pp. 212–221.
- 153.—Heikertinger, F. Kann Kontinuität der Tiernamen mit der Prioritätsregel erreicht werden? Eine Antwort an Rud. Richter. Zool. Anz. Leipzig 141 1943 pp. 35–52.

- 154.—Hemming, F. El futuro inmediato de la nomenclatura en Zoologia. An. Soc. cient. argent. Buenos Aires 148 l 1949 pp. 3-8.
- 155.—Hemming, F. Revision of the international rules of Zoological nomenclature. J. Paleont. Menasha, Wis. 23 2 1949 pp. 225-229.
- 156.—Henderson, I. F. & W. D. Dictionary of Scientific Terms, Edinburgh, 4th edn. by Kenneth, J. H. 1949 pp. xvi, 480.
- 157.—Hentschel, E. Eine biologische Karte des Atlantischen Ozeans. Zool. Anz. Leipzig 137 1942 pp. 103–123 1 fig.
- 158.—Hernández-Pacheco, E. Antecedentes, origen y desarrollo de la Sociedad Española de Historia Natural. R. Soc. esp. Hist. Nat. Tomo Extraord. 1949 1946 pp. 45-61.
- 159.—Herter, K. Von den Wirbeltieren in und um Berlin. Berlin 1947 40 pp. figs.
- 160.—Hesse, E. Kleine Beiträge zur Fauna der Mark. Märk. Tierw. Berlin 4 1941 pp. 289–296.
- 161.—Hirsch, G. C. Dynamik der Sekretions-Systeme. Remane and others, Verh. Deuts. Zool. in Kiel 1948, Leipzig (Geest & Portig) 1949 pp. 226– 232 6 figs.
- 162.—Hopwood, A. T. Animal classification from Linnaeus to Darwin. Linn. Soc. London, Lectures on Development of Taxonomy during 1948–49, London pp. 46–59.
- 163.—Hopwood, A. T. The influence of physical theory on biological thought. Proc. Linn. Soc. London 1949 161 2 pp. 155–162.
- 164.—Hughes, A. F. The living cell in division. Brit. Sci. News, London 2 24 1949 pp. 367-374 figs.
- 165.—Hutchinson, G. E. & Deevey, E. S., Jr. Ecological Studies on populations. Avery, G. S., Ed. Survey of Biol. Progress, N.Y. 1949 pp. 325–359.
- **166.—Huxley**, J. Soviet Genetics: The real issue. Nature, London **163** 4155-4156 1949 pp. 935-942 974-982.
- 167.—Ihle, J. E. W. Leerboek der Vergelijkende Ontleedkunde van de Vertebraten. Utrecht 1947, I. 450 pp. II. 415 pp. illust.

- 169.—Isfort, L. G. A partial bibliography of natural history in the Chicago region. Amer. Midl. Nat. Notre Dame 42 2 1949 pp. 406–472 figs.
- 170.—Jensen, A. S. Naturprokeren, Biskop Otto Fabricius. Dyr i Natur Mus. Kobenhavn 1943-44 pp. 67-78 figs.
- 171.—Jepson, G. L. Selection "Orthogenesis," and the fossil record. Proc. Amer. Phil. Soc. Philad. 93 6 1949 pp. 479–500.
- 172.—Jirovec, O. Prof. Zdenko Stach (19.II.1884–18.XII.1941). Vest. ceskosl. zool. Spolec. Praze 10 1946 p. 20.
- **173.**—**Jirovec**, O. Dr. Lev Černosvitov (1902–1945). Vest. ceskosl. zool. Spolec. Praze **10** 1946 pp. 48–52.
- 174.—Jírovec, O. Zoologická Technika. 2nd Edit. Prague 1947 303 pp. illust. [In Czech.]
- 175.—Jones, J. R. E. The fauna of four streams in the "Black Mountain" district of South Wales. J. Animal Ecol. 17 1948 pp. 51-65.
- 176.—Jones, J. R. E. A further ecological study of calcareous streams in the "Black Mountain" district of South Wales. J. Animal Ecol. 1949 18 pp. 142-159 figs.
- 177.—Jucci, C. A mountain centre of genetics in the Appennines. Nature, London 163 4151 1949 pp. 811-812.
- 178.—Kalabukhov, N. I. Animal Hibernation. Moscow 1946 184 pp. illust. [In Russian].
- 179.—[Kalantarova, E. K.] Калантарова, Е. К. Contemporary state of the knowledge on the corpus luteum and its metabolism. Advances mod. Biol. Moscow 1949 27 3 pp. 369–384. [In Russian.]
- 180.—[Kamniev, I. E.] Камнев, И. E. Reaction of the cornea in the eye on the action of the constant electric current. J. gen. Biol. Moscow 1949 10 2 pp. 3-34 17 figs. [In Russian.]
- 181.—Katz, B. Neuro-muscular transmission in invertebrates. Biol. Rev. Cambridge 24 1 1949 pp. 1–20.
- 182.—Kendall, J. I. Microscopic Anatomy of Vertebrates. London 1947 354 pp. illust.

- 183.—Kenk, R. The animal life of temporary and permanent ponds in southern Michigan. Misc. Pub. Mus. Zool. Univ. Mich. 1949 71 pp. 1-66 figs.
- 184.—Kerr, J. G. The Scottish marine biological association. Notes & Rec. roy. Soc. London 7 1 1949 pp. 81-96.
- 185.—[Khlopin, N. G.] Хлопин, Н. Г. The Soviet evolutionary histology. Advances mod. Biol. Moscow 1949 28 2 (5) pp. 246–365. [In Russian.]
- 186.—[Kibyakov, A V.] Кибяков, A. B. Sympathetic nervous system and the chromatinous tissue. Advances mod. Biol. Moscow. 1949 27 1 pp. 89–109 3 diagr. [In Russian.]
- 187.—Klaauw, C. J. van der. Size and position of the functional components of the skull. A contribution to the knowledge of the architecture of the skull, based on data in the literature. Arch. néerl. Zool. 9 1948 pp. 1–176 2 pls. 65 figs.
- 188.—Klaauw, C. J. van der. De verschillende aspecten van het aanpassings probleem. Vakbl. Biol. Amsterdam 29 8 1949 pp. 137–147.
- 189.—Klatt, B. Über "messende" Zoologie. Remane and others. Verh. Deuts. Zool. in Kiel 1948 Leipzig (Geest & Portig) 1949 pp. 14–17.
- 190.—[Knorre, A. G.] Khoppe, A. I. The embryonal development of the vegetative nervous system in vertebrates. Advances mod. Biol. Moscow 1949 27 1 pp. 37–62. [In Russian.]
- **191.**—**Koch**, H. J. Gustave Gilson 1859–1944. J. Conseil Copenhague **15** 1948 pp. 132–134 fig.
- 192.—Kock, G. de and Robinson, E. M. An appreciation. Onderstepoort J. Pretoria 23 1948 pp. 3-8.
- 193.—Koller, G. Daten zur Geschichte der Zoologie, Bonn 1949 64 pp.
- 194.—Koller, P. C. The genetical effects of chemical agents on the cell. Proc. 8th Internat. Congr. Genetics issued as Suppl. Vol. Hereditas Lund 1949 pp. 320–324.
- 195.—Komarek, J. Prof. Dr. Jarosl. Štorkán. Vest. ceskosl. zool. Spolec. Praze 10 1946 pp. 24–26.

- 196.—Komarek, J. Prof. Dr. Emil Sekera (2. I. 1864–10. IX. 1944). Vest. ceskosl. zool. Spolec. Praze 10 1946 pp. 41–44.
- 197.—[Kotchetov, N. N.] Кочетов, Н. H. Evolution of the heart muscle of vertebrates. J. Gen. Biol. Moscow 1949 10 2 pp. 35-41. [In Russian.]
- 198.—Krumbiegel, I. Die phylogenetische Interpretation von Verhaltensweisen. Remane and others. Verh. Deuts. Zool. in Kiel 1948 Leipzig (Geest & Portig) 1949 pp. 290–294.
- 199.—Krumbiegel, I. Tierische Gewohnheiten—und was dahinter steckt. Natur u. Volk 79 3-4 1949 pp. 64-68 figs.
- 200.—[Krushinski, L. V.] Крушинский, Л. В. The new data to the knowledge of experimental epilepsy and its physiological mechanisms. Advances mod. Biol. Moscow. 1949 28 1 (4) pp. 108–133 13 figs. [In Russian.]
- 201.—Krüger, F. Die Möglichkeit der direkten Übertragung von Objekten aus Alkohol in Paraffin. Zool, Anz. Leipzig 137 1942 pp. 226–230.
- 202.—[Kurentzov, A. I.] Куренцов, A. И. Zoogeographical division of the Preamur land. C.R. Acad. Sci. Moscow N.S. 1949 66 3 pp. 503-505. [In Russian.]
- 203.—Lam, H. J. Biosystematiek: over indelingseenheden in de natuur. Biol. Jaarb. Antwerpten 16 1949 pp. 144–156.
- 204.—Landauer, W. Le problème de l'électivité dans les expériences de teratogenèse biochimique. Arch. Anat. micr. Morph. exp. Paris 1949 38 3 pp. 184—189.
- 205.—Langlois, T. H. The biological station of the Ohio State University. Contr. F. T. Stone Lab. Ohio State Univ. No. 11 1949 pp. 1-64. illust.
- 206.—Lanza, B. Spelofauna toscana. Arch. zool. Torino 1949 34 Suppl. pp. 159-223.
- 207.—Lapage, G. Draughtsmanship in Zoological work. Endeavour London 8 30 1949 pp. 70-79 figs.
- 208.—Lashley, K. S. Persistent problems in the evolution of mind. Quart. Rev. Biol. Baltimore 24 1 1949 pp. 28-42 figs.

- **209.—Lattin,** G. de. Beiträge zur Zoogeographie des Mittelmeergebietes. Remane and others, Verh. Deuts. Zool. in Kiel 1948, Leipzig (Geest & Portig) 1949 pp. 143–151, 5 figs.
- 210.—Levi, G. I rapporti d'interdipendenza tra le varie parti del neurone. Riv. Biol. Perugia N.S. 41 I 1949 pp. 5-26 figs.
- 211.—Lewis, W. H. Superficial gel layers of cells and eggs and their role in early development. An. Inst. Biol. Mexico 1949 20 1-2 pp. 441-454.
- 212.—Lewis, C. B. & Swaby, C. The study of natural history in Jamaica. Glimpses of Nat. Hist. Jamaica 2nd edn. 1949 pp. 7-13.
- 213.—Loesche, M. Gedanken Goethes in der neuzeitlichen Biologie. Bremen 1949 pp. 1–26.
- 214.—Lopez, E. A. Lamarck, Cavanilles y Condillac. R. Soc. exp. Hist. Nat. Tomo Extraord. 1949 1946 pp. 77–87.
- 215.—Lucas, C. E. External metabolites and ecological adaptation. Symposia Soc. exp. Biol. Cambridge 1949 No. 3 pp. 336-356.
- 216.—Ludwig, W. Mathematik und Zoologie, Remane and others Verh. Deuts. Zool. in Kiel 1948 Leipzig (Geest & Portig) 1949 pp. 17–24 2 figs.
- 217.—Lübbert, H. Ernst Ehrenbaum. Ber. deutsch. wiss. Kom. Meeresforsch. Stuttgart (N.F.) 11 1949 pp. 434-442.
- 218.—Lütken, P. Bruskskelet og Epifyseproblem. Kobenhavn 1947-166 pp. 124 figs.
- 219.—Mac Ginitie, G. E. & Mac Ginitie N. Natural History of Marine Animals New York 1949 473 pp. illust.
- 220.—Macan, T. T. Factors limiting freshwater populations. Proc. Linn. Soc. London 1949 161 2 pp. 129-131.
- 221.—Macan, T. T. Survey of a moorland fishpond. J. Animal Ecol. 1949 18 pp. 160–186 figs.
- 222.—Mangold, O. Hans Spemann zum Gedächtnis. Ber. naturf. Ges. Freiburg 38 2 1943 pp. 117–140 port.
- 223.—Mařan, J. Antonín Vimmer (18 vii 1864–30 iv. 1941.) Vest-ceskosl. zool. Społec Praze 10 1946. pp. 11–19.

- 224.—Marsal, D. Die statistische Sieherung von Mittelwerten and Korrelationsziffern. N. Jahrb. Min. Geol. Paläont. Stuttgart B8 1949 pp. 249-956.
- 225.—Marshall, A. J. The breeding seasons of animals. New Nat. London. No. 5 [1949] pp. 15–18 figs.
- 226.—Martin, O. R. and Crehuet, R. F. Apuntes para el Estudio bionomico de la Bahia de Santander. Bol. Inst. Esp. Oceanogr. No. 1 1948 pp. 1-41.
- 227.—Maschkowzeff, A. Die morphophysiologischen Gesetzmassigkeiten in der Entwicklung der Wirbeltiere. Zool. Jahrb. Jena (Allg. Zool.) 60 1940 pp. 129–202 figs.
- 228.—[Mashkovtzev, A. A.] Maul-Kobileb, A. A. Importance for biology of the investigation of Ivan Petrovitch Pavlov on superior nervous activity. Advances mod. Biol. Moscow 28 1 (4) 1949 pp. 47–87. [In Russian.]
- **229.**—**Mason**, K. E. Nutrition and reproduction. Survey of Biol. Progress N.Y. 1949 1 pp. 89-114.
- 230.—Mather, K. The genetical theory of continuous variation. Proc. 8th Internat. Congr. Genetics issued as Suppl. Vol. to Hereditas, Lund 1949 pp. 376-401.
- 231.—Mather, K. and Harrison, B. J. The manifold effect of selection. Heredity London 3 1 1949 pp. 1-52 diagr.
- 232.—Matthey, R. Les Chromosomes des Vertébrés. Lausanne 1949 356 pp. illustr.
- 233.—[Matveev, B. S.] Matbeeb, B. C. The role of embryology in the study of the principles of evolution. Zool. J. Moscow 26 5 1947 pp. 389-402. [In Russian.]
- 234.—Mayr, E. Speciation and Systematics. Jebsen G. L., Mayr, E. & Simpson, G. G. Genetics. Paleontology & Evolution; Princeton, N. J. 1949 pp. 281-298.
- 235.—Mayr, E. The species concept: Semantics versus semantics. Evolution Lancaster Pa. 1949 3 4 pp. 371-372.
- 236.—Mayr, E. Speciation and selection. Proc. Amer. Phil. Soc. Philad. 93 6 1949 pp. 514-519.

- 337.—Märki, E. Die Limnologie der schweizerischen Seen und Flüsse, Zusammenstellung der Literatur seit 1900. Schweiz. Z. Hydrol. Basel 11 3-4 1949 pp. 650-707 5 figs.
- 238.—Merriman, D. Biological problems of the ocean. Scient. Monthly Lancaster Pa. 68 1 1949 pp. 12–16.
- 239.—Mertens, R. Eduard Rüppell, Leben und Werk eines Forschungsreisenden. Senckenb. Buch. Frankfurt a. M. 1949 No. 24 pp. 1–388 illust.
- 240.—Mes, M. G. Trends in biological research. Pamphl. S. Afr. biol. Soc. No. 14 1949 pp. 85–102 diagr.
- **241.**—Meyer-Abich, A. Biologie der Goethezeit, Stuttgart 1949 pp. 1–302.
- 242.—Miller, R. L. An application of the analysis of variance to paleontology. J. Paleont. Menasha Wis. 23 6 1949 pp. 635-640.
- 243.—Milt, B. Die Entwicklung der Züricher Naturwissenschaften und ihr Aufschwung durch den Geist von 1848. Neujahrsbl. naturf. Ges. Zürich No. 151 1949 pp. 1–62.
- 244.—Miyadi, D. Ecological survey of the benthos of the Ago-wan. Annot. zool. jap. 20 1941 pp. 169–180 figs.
- 245.—Moncamit. M. E. Aportación al conocimento de la osteogénesis en la serie de vertebrados. Rev. Acad. Madrid 42 2 1949 pp. 245–261 illust.
- 246.—Monné, L. Structure and function of neurones in relation to mental activity. Biol. Rev. Cambridge 24 3 1949 pp. 297-315.
- 247.—Monroy, A. Citofisiologia della fecondazione. Monit. zool, ital. Firenze 56 Suppl. 1948 pp. 70–90.
- 248.—Morandini, G. Ricerche limnologiche sugli alti laghi alpini della Venezia Tridentina. Boll. Pesca Piscicolt. Idrobiol. Roma 4 1949 pp. 16-60 figs. 75-155.
- 249.—Muller, H. J. The Darwinian and modern conceptions of natural selection. Proc. Amer. Phil. Soc. Philad. 93 6 1949 pp. 459–470.
- 250.—Muller, H. J. Genetics in the scheme of things. Proc. 8th Internat. Congr. Genetics issued as Suppl. Vol. to Hereditas, Lund 1949 pp. 96–127.

- 251.—Muller, H. J. Redintegration of the symposium on genetics, paleontology, and evolution. Jebsen, G. L. Mayr, E. and Simpson, G. G. Genetics Paleontology & Evolution; Princeton, N.J. 1949 pp. 421-445.
- 252.—Nauck, E. T. Die biologische Anatomie Hans Bökers. Ber. naturf. Ges. Freiburg 36 2 1939 pp. 181–224 1 pl.
- 253.—Navarro Cándido, A. Clasificación de los animales. Madrid 1949 317 pp. illust.
- 254.—Newell, N. D. Comments on paleogeography and nomenclature. J. Paleont. Menasha, Wis. 23 2 1949 pp. 220–223.
- 255.—Newell, N. D. Types and hypodigms. Amer. J. Sci. New Haven 247 2 1949 pp. 134-142.
- 256.—[Nicolaev, I. I.] Hukolfieb. II. II. On the appearance of warmwater and saltwater elements of fauna and flora in the eastern Baltic. C.R. Acad. Sci. Moscow. N.S. 68 2 1949 pp. 397–400. [In Russian.]
- 257.—Nielsen, E. S. Ove Paulsen. J. Conseil Copenhague 16 1949 pp. 14-15 fig.
- 258.—[Nikolsky, G. V.] Никольский, Г. В. On biological peculiarities of faunistic complexes and on the value of their analysis for zoogeography. Zool. J. Moscow 26 3 1947 pp. 221–232. [In Russian.]
- 259.—Noble, R. C. The nature of the beast. New York 1946 224 pp. illust.
- 260.—Novak, V. Dr. Jiří Baum (20. IX. 1900–1943). Vest-ceskosl. zool. Spolec. Praze 10 1946 pp. 35–38.
- 261.—Novikoff, M. Zur Frage über den Parellelismus im Bau der tierischen Organe insbesondere der Augen. Anat. Anz. Jena 95 1944 pp. 118–130 3 figs.
- 262.—Nowikoff, M. Grundzüge der Geschichte der biologischen Theorien, München 1949 pp. 1–222.
- 263.—Oakley, K. P. & Wood, H. M. M. The succession of life through geological time. Time, London 1949 2nd edn. pp. 1-92 illust.

- 264.—[Oparin, A. I. and Novinski, I. I.] Опарин, А. II.; Новинский, II. II. I. V. Stalin—great creator of the Soviet Science. Bull. Acad. Sci. Moscow ser. biol. 1949 6 pp. 639-657. [In Russian.]
- 265.—Osterweis, R. G. The sesquicentennial history of the Connecticut Academy of Arts and Sciences. Trans. Conn. Acad. Arts Sci. 1949 38 pp. 103-149 illust.
- 266.—Pagel, W. J. B. van Helmont. De Tempore and biological time. Osiris, Bruges 1948 8 pp. 346-417.
- 267.—[Palatnik, S. A.] Налатипк. С. A. The study of I. M. Setchenov on a central summation of excitement. Advances mod. Biol. Moscow 1949 27 I pp. 1-14. [In Russian.]
- 268.—Pan, I. del. Influencia de la Real Sociedad Española de Historia Natural en la divulgación y enseñanza de las Ciencias Naturales. R. Soc. esp. Hist. Nat. Tomo Extraord. 1949 1946 pp. 29–44.
- 269.—Pan, I. del. Bases para un proyecto de Museo Pedagogico-Cultural de Ciencias Naturales en España. R. Soc. esp. Hist. Nat. Tomo Extraord. 1946 1949 pp. 261–303 figs.
- 270.—Pardo, L. Breve noticia histórica de la Sección de Biologia de las Aguas continentales. R. Soc. esp. Hist. Nat. Tomo Extraord. 1946 1949 pp. 201–212 figs.
- 271.—Parker, G. H. Animal Colour-Changes and their Neurohumours. Cambridge 1948 377 pp. Illust.
- 272.—Pax, F. Tierische Rohstoffe als Zahlungsmittel. Natur u. Volk 79 9-10 1949 pp. 213-220 figs.
- 273.—Payne, L. G. The story of our society. Part II, London Nat. No. 28 1949 pp. 10-22.
- 274.—Pease, D. C. & Baker, R. F. Preliminary investigations of Chromosomes and genes with the electron microscope. Science Lancaster Pa. 109 2819 1949 pp. 8–10 figs.
- 275.—Peters, H. M. Grundfragen der Tierpsychologie. Stuttgart 1948 117 pp. illust.
- **276.—Peters,** R. A. The cell. Adv. Sci. London **6** 23 1949 pp. 257–266.

- 277.—Peyer, B. Die Genese von Schmelz, Zahnbein und Knochen. Arch. Klaus-Stift. Vererb. Forsch. Zürich 24 1949 pp. 188–196.
- 278.—Pflugfelder, O. Zooparasiten u. die Reaktionen ihrer Wirtstiere. Jena 1950 198 pp. illust.
- 279.—Pike, O. G. Wild Animals in Britain. Mammals, reptiles and amphibians. London 1950 231 pp. illust.
- 280.—Pirenne, M. H. L. Vision and the Eye. London 1948 187 pp. illust.
- 281.—[Platova, T. P.] ILIATOBA, T. H. On the participation of the cytoplasm of the nucleus in the exchange of matters in cell. Advances mod. Biol. Moscow 1949 28 2 (5) pp. 169–186 10 figs. [In Russian.]
- 282.—[Podkopaev, N. A.] Hogkouaeb, H. A. Scientific achievements of Ivan Petrovitch Pavlov. Advances mod. Biol. Moscow 1949 28 1 (4) pp. 1-10 phot. [In Russian.]
- 283.—Pollister, A. W. & Leuchtenberger, C. The nucleoprotein content of whole nuclei. Proc. nat. Acad. Sci. Wash. 35 1 1949 pp. 66-71.
- 284.—Pollister, A. W. & Leuchtenberger, C. The nature of the specificity of methyl green for chromatin. Proc. Nat. Acad. Sci. Wash. 35 2 1949 pp. 111-116.
- 285.—Ponse, K. Actions paradoxales des glandes génitales, Rev. suisse Zool. Genève 55 1948 pp. 477–531 figs.
- 286.—Ponse, K. La différenciation du sexe et l'intersexualité chez les vertébrés. Lausanne 1949 366 pp. illust.
- 287.—Portmann, A. Einführung in der vergleichende Morphologie der Wirbeltiere. Basel 1948 335 pp. illust.
- 288.—Powell, A. W. B. Native Animals of New Zealand. Auckland 1947 96 pp. illust.
- 289.—Precht, H. Die Temperaturabhängigkeit von Lebensprozessen, Z. Naturf. Wiesbaden 4b 1 1949 pp. 26–35 diagr.
- 290.—Pumphrey, R. J. Preliminary remarks on the evolution of colour vision Proc. Linn. Soc. London 1949 161 2 pp. 95-111 figs.

- 291.—Rabaud, E. L'Instinct et le comportement animal. Vol. I 224 pp.; II 208 pp. Paris, 1949 illust.
- 292.—Rau, L. R. The importance of micropalaeontological studies in India. Proc. Indian Acad. Sci. 29B 1 1949 pp. 1-4.
- 293.—Richter, R. Schutz des Art-Namens bei subjektiver Homonymie. Senckenbergiana Frankfurt a. M. 1949 30 4-6 pp. 241-242.
- 294.—Ricketts, E. F. and Calvin, J. Between Pacific Tides. Stanford 1948 365 pp. illustr.
- 295.—Robbie, W. A. Respiration of the tissues of some invertebrates and its inhibition by cyanide. J. Gen. Physiol. Baltimore 32 6 1949 pp. 655-670 figs., tables.
- 296.—Roberts, H. S. Changes in mitochondrial form. Anat. Rec. Philadelphia 104 1949 pp. 163–183 figs.
- 297.—Rodriguez, R. G. Odon de Buen y Del Cos. J. Conseil Copenhague 15 1948 pp. 135-136 fig.
- 298.—Roger, J. Programme d'observations et d'études marines s'appliquant à la géologie et à la paléontologie. Bull. Lab. Marit. Dinard Fasc. 32 1949 pp. 15–22.
- **299.**—Rollefsen, G. Oscar Sund. 1883–1943. J. Conseil Copenhague **15** 1948 pp. 147–150 fig.
- 300.—Romer, A. S. Time series and trends in animal evolution. Jepsen, G. L., Mayr, E. & Simpson, G. G. Genetics; Paleontology & Evolution. Princeton, N.J. 1949 pp. 103–120.
- 301.—Romer, A. S. The vertebrate body. Philadelphia 1949 643 pp. illust.
- 302.—Roonwal, M. L. Modern trends in Systematics. Current Sci Bangalore 18 2 1949 pp. 39-40.
- **303.—Rose**, H. M. & Jewell, P. A. Marxist genetics. Brit. med. J. London No. 4595 1949 pp. 195–196.
- 304.—[Roskin, G. I.] POCKHH, I'. II. On the exchange of the substances between the nucleus and cytoplasma during mitosis. C.R. Acad. Sci. Moscou N.S. 69 4 1949 pp. 585-587 fig. [In Russian.]

- 305.—Rouschal, W. Osmotische Werte wirbelloser Landtiere und ihre ökologische Bedeutung. Z. wiss. Zool. Leipzig 153 1940 pp. 196–218 figs.
- 306.—Rugh, R. Effect of ionizing radiations of gametes, embryos and the newborn. Trans. N. Y. Acad. Sci. 1949 (2) 12 2 pp. 55-57.
- **307.—Russell, E.** S. Michal Siedlecki 1873–1940. J. Conseil Copenhague **15** 1948 pp. 144–146 fig.
- 308.—Sacarrão, G. F. Sobre alguns aspectos do desenvolvimento dos ovos telolecíticos e sua importância biológica geral. Arq. mus. Bocage Lisbon 19 1948 pp. 71–161.
- 309.—Saint-Denis, E. De. Le Vocabulaire des Animaux Marins en latin classique. Paris 1947 120 pp.
- 310.—Salmon, J. T. Taxonomic research in New Zealand. Trans. Roy. Soc. N.Z. 1949 77 5 pp. 253–259.
- 311.—[Sakharov, P. P.] Caxapob, II. II. Succession of acquired characters in animals. Zool. J. Moscow 28 1 1949 pp. 7-38. [In Russian.]
- 312.—Saunders, J. T. and Manton, S. M. A manual of practical Vertebrate Morphology. Oxford 1949 255 pp. illust.
- 313.—Saura, F. Tecnicas usuales para observar cromosomas. Bol. Fac. Agron. Vet. Buenos Aires no. 27 1949 30 pp.
- **314.—Schaerffenberg,** B. Können Landtiere unter Wasser leben? Österr. Zool. Z. Wien 2 1949 pp. 159–163.
- 315.—Schäfer, W. Das Wissenschaftliche Tierbild. Frankfurt a. M. 1949 136 pp. illust.
- 316.—Schilder, F. A. 25 Leitsätze der zoologischen Taxonomie. Beitr. Taxonomischen Zool. Pössneck 1949 1 pp. 3-6.
- 317.—Schilder, F. A. Methoden und Probleme der Biostatistik V. Biol. Zbl. Leipzig 68 5-6 1949 pp. 244-252 and 7-8 pp. 334-342.
- 318.—Schmidt, H. Naturbeobachtungen bei Goethe. Natur u. Volk 79 7-8 1949 pp. 157-165 figs.
- 319.—Schmidt, W. J. Einiges über optische Anisotrope und Feinbau von Chromatin und Chromosomen. Chromosoma Berlin 2 1941 pp. 86-110 12 figs.

- 320.—Schmidt, J. and others. Züchtung, Ernährung u. Haltung der landwirtschaftlichen Haustiere. Berlin 1945 361 pp. illust.
- **321.—Schouppé**, A. Die Bedeutung der Palaeontologie für die Abstammungslehre. Mitt. naturw. Ver. Steierm. 1949 **77-78** pp. 117-180.
- 322.—Schoute, J. C. Biomorphology in general. Verh. K. ned. Akad. Wet. Amsterdam 1949 (2) 46 1 pp. 1-93 illust.
- 323.—Schönmann, R. Die Welt der Tiere. Wien 1949 654 pp. illust.
- 324.—Serra, J. A. Contributions to a physiological interpretation of mitosis and meiosis. I. The composition of the resting stage nucleus. II. The prophasic appearing of the chromonemate and the spiralization. Portug. Acta Biol. 2A 1 1947 pp. 24-89 figs.
- 325.—Seurat, L. G. Zoologie Saharienne. Alger. 1944 58 pp.
- 326.—Severtzov, S. A. Dinémica de la Poblacion Animal. Buenos Aires, 1947 539 pp.
- 327.—[Shadin, V. I.] Жадин, В. И. The principles of the mass development of life in the water reservoirs. Zool. J. Moscow 26 5 1947 pp. 403-414. [In Russian.]
- 328.—Shockley, C. H. Fish and Invertebrate populations of an Indiana bass stream. Inv. Indiana Lakes and Streams, Indianopolis 1949 3 pp. 247–270.
- 329.—[Shreder, V. N.] Шредер, В. Н. Determination of the sex from the biochemical and physiological point of view. Advances mod. Biol. Moscow 28 2 (5) 1949 pp. 211–225. [In Russian.]
- 330.—[Shreder, V. N.] III редер, B. H. Biochemistry of leucocyte and the wound infection. Advances mod. Biol. Moscow 27 3 1949 pp. 461-478. [In Russian.]
- 331.—Simpson, G. G. Rates of evolution in animals. Jepsen, G. L., Mayr, E. & Simpson, G. G. Genetics; Paleontology & Evolution; Princeton N.J. 1949 pp. 205–228.
- 332.—Sladecek, F. Réaction des mélanophores de l'écaille isolée du

- Cyprin comme test de l'hormone mélanophorotrope. Rev. suisse zool. Genève **56** 1949 pp. 493–518.
- 333.—Smart, J. Post-Darwinian development of taxonomy (Zoology). Linn. Soc. London Lectures on Development of Taxonomy during 1948–49 London pp. 80–83.
- 334.—Sonneborn, T. M. Beyond the gene. Amer. Scient. Burlington 37 1 1949 pp. 33-59 figs.
- 335.—Soulairac, A. Classification des réactions d'orientation des animaux (tropismes). Année Biol. Paris (3) 25 1–2 1949 pp. 1–14.
- **336.—Spärck**, R. Bottom investigations. Rapp. Cons. Explor. Mer. Copenh. **120** 1948 pp. 32–33 map.
- 337.—Stauder, Fr. Der Salzgehalt im Wohnwasser von Süsswassertieren als Schutz gegen schädliches Kurzwelliges Licht. Zool. Jahrb. Jena (Allg. Zool.) 60 1942 pp. 345–386.
- **338.—Stead,** D. G. A brief history of the wild life preservation society of Australia 1909 to 1949. Aust. Wild Life Sydney 1949 2 2 pp. 33–72 fig.
- **339.**—**Štěpánek**, O. Dr. Miloš Záleský † 1. I. 1944. Vest. českosl. zool. Spolec Praze **10** 1946 pp. 39–40.
- 340.—Stern, C. Gene and Charakter. Jepson, G. L., Mayr, E. & Simpson, G. G. Genetics; Paleontology & Evolution; Princeton N.J. 1949 pp. 13-22.
- 341.—Stohl, G. Bermerkungen zum Chitin-Problem. [In Hungarian with German summary.] Foila ent. hung. Budapest [N.S.] 2 1947 pp. 37-42 fig.
- 342.—Stresemann, E. Der Naturforscher Friedrich Sellow (†1831) und sein Beitrag zur Kenntnis Brasiliens. Zool. Jahrb. Jena (Syst.) 77 1948 pp. 401–425.
- 343.—Strong, L. C. The induction of mutations by a careinogen. Proc. 8th Internat. Congr. Genetics issued as Suppl. Vol. to Hereditas, Lund 1949 pp. 486-499.
- 344.—Studnička, F. K. Über die Vitalität der "extrazellulären" Substanzen und Strukturen. Z. mikr. anat. Forsch. Leipzig 52 1942 pp. 617-657.

- 345.—[Sutulov, L. S.] Cytylob, Jl. C. Changes occurring in the nervous elements of the intravertebral knots at transplantation. C.R. Acad. Sci. Moscow N.S. 69 1 1949 pp. 73–75. [In Russian.]
- 346.—[Talizin, F. F., Tchishova, T. P., Ptchelkina, A. A.] Талызин, Ф. Ф., Чикова, Т. П., Пчелкина, А. А. On the action of the venom of Indian Cobra (*Naja naja*) on the experimental animals. C.R. Acad. Sci. Moscow N.S. 69 2 1949 pp. 273–276 2 diagrams. [In Russian.]
- 347.—Tank, W. Tieranatomie für Künstler. Ravensburg 1939 157 pp. illust.
- 348.—Tchang-Li, Recherches limnologiques et zoologiques sur le lac de Kunming Yunnan. Contr. Inst. zool. Peiping 4 1948 pp. 1-22.
- **349.**—**Tesch**, J. J. H. C. Redeke 1873–1945. J. Conseil Copenhague **15** 1948 pp. 141–143.
- **350.—Tétry,** A. Quelques remarques sur la systématique. Vest. ceskosl. zool. Spolnec. Praze **6–7** 1939 pp. 462–469.
- **351.—Théodoridès,** J. Les Sciences Naturelles aux États-Unis (Institutions visitées en 1947–48). Nat. Belges Bruxelles **30** 10 1949 pp. 154–159.
- 352.—Thienemann, Λ. Wasserstandsschwankungen im Garrensee, Pinnsee und Drewitzer See 1931–1944. Arch. Hydrobiol. Stuttgart 43 1949 1 pp. 1–20.
- 353.—Thorpe, W. H. The modern concept of instinctive behaviour. Bull. Animal Behaviour London No. 7 1948 12 pp.
- 354.—Thorson, G. Hundrede aars Øresundsundersøgler. Dyr i Natur Mus. Kobenhavn 1943-44 1944 pp. 41–59 figs.
- 355.—Tischler, W. Biocönotische Untersuchungen an Wallhecken. Zool. Jahrb. Jena (Syst.) 1948 77 pp. 283-400 figs.
- 356.—Tortonese, E. Appunti ecologici relativi ad un' area desertica del basso Egitto (Tell-El-Kebir). Boll. Ist. Mus. Zool. Torino 1 1948 pp. 155–183.

- 357.—Trembley, F. J. Evolution and human affairs. Proc. Penn. Acad. Sci. 23 1949 pp. 181-195.
- 358.—[Turpaeva, E. P.]. Typmaeba, E. II. Nourishment of some bentic invertebrates in the Barents Sea. Zool. J. Moscow 27 6 1948 pp. 503–512 3 figs. [In Russian.]
- 359.—[Turpaeva, E. P.] Турпаева, E. II. Significance of food interrelations in the structure of the marine benthal bicenoses. C.R. Acad. Sci. Moscow N.S. 65 1 1949 pp. 93-96. [In Russian.]
- 360.—[Tzarapkin, N. R.] Царапкин, H. P. On the development of the milk gland. Advances mod. Biol. Moscow 27 1 1949 pp. 15-36. [In Russian.]
- 361.—Ubisch, L. v. Über die Rolle von Selbstdifferenzierung, Induktion und Selbstregulation bei Amphibien, Seeigeln. Z. wiss. Zool. Leipzig 153 1940 pp. 279–309 figs.
- 362.—[Udaev, N. A.] IOдаев, H. A. Discovery of carnosine and anserine in the heart muscle with the aid of distributive chromatography on paper. C.R. Acad. Sci. Moscow N.S. 68 1 1949 pp. 119–121 figs. [In Russian.]
- 363.—[Ushakov, P. V.] VIIIAKOB, II. B. The system of vertical zones in the Okhotsk Sea. C.R. Acad. Sci. Moscow N.S. 68 4 1949 pp. 769-772. [In Russian.]
- 364.—Vallmitjana, L. Notas sobre técnica histológica. Bol. Soc. esp. Hist. nat. 46 7–8 1949 pp. 489–507.
- 365.—[Venkstern, T. V.] Венкстерн, T. В. On metabolism and light sensitive matters of retina. Advances mod. Biol. Moscow 1949 27 2 pp. 227-256 3 diagr. [In Russian.]
- 366.—Verweij, J. Habitat selection in marine animals. Folia Biotheoret. Leiden B No. 4 1949 pp. 1-22.
- 367.—[Vinogradov, K. A.]. Buhorpalos, K. A. Zoogeographical outlines of the sea littoral fauna in the southeastern Kamtchatka. Zool. J. Moscow 28 1 1949 pp. 99-101. [In Russian.]
- 368.—Volf, M. B. Valentin's manuscript "Histiogenia comparata." Vest. ceskosl. zool. Spolnec. Praze 6-7 1939 pp. 476-512 figs.

**369.—Wagner**, R. P. Application of tracers in biology and genetics. Texas J. Sci. 1 3 1949 pp. 106-109.

370.—Walter, H. E. and Sayles, L. P. Biology of the Vertebrates. New York, 1949 875 pp. illustr.

371.—Warwick, T. The colonization of bomb-crater ponds at Marlow. Buckinghamshire. J. Animal Ecol. 1949 18 pp. 137-141.

372.—Watson, D. M. The mechanism of evolution. Proc. Linn. Soc. London 160 2 1949 pp. 75-84.

373.—Wautier, J. Biocenotique. Bull. Soc. linn. Lyon 18 4 1949 pp. 76–80 and 5 pp. 90–95.

374.—Wautier, J. Procédé graphique d'expression de l'évolution des biotopes et de la dynamique des biocoenoses. Bull. biol. France-Belg. 83 2 1949 pp. 187–205 figs.

375.—Wintrebert, P. Les directives biologiques dans l'étude de l'ontogenèse et de l'évolution. Arch. Zool. exp. gén. Paris (Notes Revue) 85 1948 pp. 151-154.

376.—Wintrebert, P. Le Lamarckisme chimique. C.R. Acad. Sci. Paris 228 13 1949 pp. 1079–1082.

377.—Wolff, E. La science des monstres. Paris, 1948 265 pp. illustr.

378.—Worden, A. N. The U.F.A.W. Handbook on the care and management of laboratory animals. London 1949 368 pp. illust.

379.—Wright, S. Population structure in evolution. Proc. Amer. Phil. Soc. Philad. 93 6 1949 pp. 471–478.

380.—Wright, S. Adaptation and Selection. Jebsen, G. L., Mayr, E. & Simpson, G. G. Genetics, Paleontology & Evolution. Princeton, N.J. 1949 pp. 365–389.

381.—[Yakovlev, N. N.] SIROBACB, H. H. Biochemical tenors of muscles training. Advances mod. Biol. Moscow 1949 27 2 pp. 257-271. [In Russian.]

382.—{Zenkevitch, L. A.] Зенкевич, J. A. On the problems and object of the marine biogeography. Zool. J. Moscow 26 3 1947 pp. 201–220 16 figs.

**383.—Zwemer,** R. L. Potassium tolerance in various animal species J. exp. zool. Philadelphia 1950 **113**. pp. 649-657.

#### II.—SUBJECT INDEX

#### GENERAL LITERATURE

General Works, Textbooks.—MES 240: Influence of physics in biology, Hop-WOOD 163; Ocean problems in biology, MERRIMAN 238; SOULAIRAC 335; Nature protection and science, GOETHE 126; WOLFF 377; Colour changes in animals, Parker 271; Mac GINITIE & MAC GINITIE 219; WALTER & SAYLES 370; Animal world, Schömann 323; Breeding of domestic animals, SCHMIDT & OTHERS 320; HENDERSON & W. D. 156; Textbook of tropical zoology, Hediger 151; Zoobiology, HARMS 146; Parasitic animals, PFLUGFELDER 278; Tropical parasitology, Gradwohl & KOURI 130; Textbook on Fiji, DEGENER 88; Amphibia, Reptilia, Aves, Mammalia, BRAESTRUP & OTHERS 42; Animal facts and fallacies, Breland 49; Zoological technique, JÍROVEC 174; Animal psychology, Peters 275; FRITSCHE 110; NOBLE 259; Morphogenesis and general biology, DALCQ 79; contemporary biology, CREIGHTON 78; Polemics on Marxist biology, Bourne 39; Definition of the term "relic," Birstein 35; Satpura hypothesis, Bhatnagar 32; Ways and means in zoology, Archey 12; Presentation of scientific information, Andrade 8; Cell theory, Volf 368.

History.—Role of Stalin to organise Soviet biology, Oparin & Novinski 264: Danish sea investigations since 1844. THORSON 354; Van Helmont, PAGEL 266; History of biological theories, NOWIKOFF 262; Goethe's observations on animals, Schmidt 318; Art and animals in picture, Schäfer 315; Hans Böker's biological anatomy, NANCK 252; MILT 243; Biology in times of Goethe, MEYER-ABICH 241; Jamaica's natural history, Lewis & SWABEY 212; History of Zoology, Koller 193; O. Fabricius, Jensen 170; Biology in China, GAW 112; Canadian Zoology, Dymond 99; Mediaeval zoology, Cabrera 59 Butterfield 56; Bouveignes 40; Timotheus of Gaza, Bodenheimer & RABINOWITZ 37; E. Davall, BEER DE 29: "Goethe's thoughts in modern biology, Loesche 213; Lopez 214.

Biography.—E. Rüppell, MERTENS 239; F. Sellow and his knowledge of Brazil, STRESEMAN 342; Pavlov,

PODKOPAEV 282; Hans Spemann. MANGOLD 222; E. G. RACOVITZA, GUIART & JEANNEL 137; Mosambique naturalists, GOME e SOUSA 129; Charles Waterton, ALDINGTON 3; Biography of the members of the Connecticut Academy of Arts and Sciences, OSTERWEIS 265.

Obituary.—H. C. Rcdeke, Tesch 349; M. Záleský, Štépánek 339; M. Siedlecki, Russell 307; O. Sund, Rollefsen 299; O. de Beun y Del Cos, Rodriguez 297; J. Baum, Novák 260; O. Paulsen, Nielsen 257; Antonín Vimmer and his publications, Mařan 223; E. Ehrenbaum, Lübbert 217; J. Štorkàn, Komárek 195; E. Sekera, Komárek 196; G. Gilson, Koch 191; Dr. P. J. Du Toit, Kock & Robinson 192; G. M. Mathews, Z. Stach, Jírovec 172; L. Černosvitov, Jírovec 173; H. Hertling, Hagmeier 141; A. Reichenow, Grote 136; V. Janko, Frankenberg 108; D'Arey W. Thompson, Dobell 93; E. Giacomini, Corti 75; D'Arcy W. Thompson, Clark 70; E. Hentschel, Caspers 65; C. Heinrici, Bückmann 58; V. Maule, Breindl 48; J. Šámal, Breindl 47; F. Vejdovský, Breindl 46; B. Štěpnička, Breindl 45; J. Hjort, Andersson 7; F. Vlès, Achard 2.

Bibliography.—Zoological bibliography of Chicago region, ISFORT 169; COLE 72; Bibliography of history of science; GEISER & B.T. 114; Bibliography of aquatic and shore-line fauna of Norfolk Peninsula, U.S.A., FERGUSON & JONES 102; Bibliography on animal nutrition, ANON 11; Swiss literature on limnology for 1900, Märki 237.

Taxonomy.—Systematics, Tétry 350;
Navarro Cándido 253; Concept of species, Burma 55; Measurements in Zoology, Klatt 189; Post-Darwinian taxonomy, Smart 333; Schilder 316; Mathematics and Zoology, Ludwig 216; Mayre 235; Biomorphology, Schoute 322; Mayre 234; Taxonomic research in New Zealand, Salmon 310; Roonwal 302; Classification from Linnaeus to Darwin, Hopwood 162; Quantitative systematics, Cazier & Bacon 66; Taxonomy nomenclature, synonymy, Calman 61; Biosystematics, Lam 203; Classification of organisms, Barkley 24.

Nomenclature. — RICHTER 293; NEWELL 254; Revision of rules of zoological nomenclature, HEMMING 155; Future of zoological nomenclature, HEMMING 154; HEIKERTINGER 153; GILL 120; HAAS 140.

Museums and Institutions.—Some U.S. scientific institutes, Théodorides 351; Wild life preservation society of Australia, Stead 338; History of London Natural History Society, Payne 273; Pardo 270; Spanish Pedagogical Museum of Natural History, Pan del 269; Spanish Natural History, Pan del 269; Spanish Natural History Society, Pan del 268; Ohio state University Station, Langlois 205; Kerre 184; Genetic station in the Appenines, Jucci 177; Port Erin Biological Station, Bruce 50; Museum de Entre Rios in Brasil, Badano 16; Natural History Society of Spain, Hernandez 158.

Vernacular Names.—Hare 145; Saint-Denis 309.

Statistics.—Methods and problems of biostatistics, Schilder 317.

### STRUCTURE (including HISTOLOGY and CYTOLOGY)

General Works.—Kendall 182; Davis 87; Comparative anatomy of Vertebrates, Ihle 167; Portmann 287; Origin of bones, teeth and dentine, Peyer 277; Comparative anatomy of Vertebrates, Romer 301; Animal anatomy for artists, Tank 347; Anatomy of vertebrates, Saunders & Manton 312.

Osteology.—Architecture of the skull, Klaauw 187; Comparative study fo the cervical region of vertebrates, Dubinin 96.

Muscles.—Godeaux 125.

Circulatory system. Spleno-gastric vessels in some vertebrates, Ceriotti 67.

Nervous System.—Morphogenesis of vertebrates nervous system, Beccari 26; Interrelation of the various parts in the neurone, Levi 210; Nervous structure and function, Monné 246; Sensitive innervation of internal organs, Grigoryeva 135.

Sense Organs.—Comparative anatomy of eye, Novikoff 261; Function of eye, PIRENNE 280.

Endocrine Glands.—Endocrine glands in animals, Hanström 144; Lütken 218.

Bio-Chemistry.—Nucleoprotein nuclei, Pollister & Leuchtenberger 283; Chromatin and methyl green, POLLISTER & LEUCHTENBERGER 284; Chemical matters sensitive to light in retina, VENKSTERN 365; New method of discovery of carnosine and anserine in the heart of some vertebrates. UDAEV 362; Biochemical role of leucocyte in healing wounds, SHREDER 330; PETERS 276; Insuline and the hydrocarbon metabolism in the dog, GENES 115; L-triptophane and vitamin Be in animal organisms, Braunshtein 43; Action of cancerogenous hydrocarbons, Bergoltz 31; Baldwin 21; STORL 341.

Taboratory Technique.—Apparatus for plancton observation, Bainbridge 18; Apparatus for marine nannoplancton estimation, Cole & Jones 73; Sounds of submarine animals, Dobridge 194; Stereophotography in paleontology Evitt II 101; New embedding method, Krüger 201; Zoological drawings, Lapage 207; Laboratory animals management, Worden 378; Histological technique, Vallmitjana 364; Chromosome technique, Saura 313.

Cytology.—Physiology of mitosis, SERRA 324; Structure of Chromatin and Chromosomes, SCHMIDT Exchange between nucleus and cytoplasma, Roskin 304; Roberts 296; PLATOVA 281; MATTHEY 232; Cell division, Hughes 164; Dynamies of secretory system, HIRSCH 161; LEWIS 211; Vitality of extracellular substances, Studnička 344; Study on variation of caryotype, Golubinski 128: GIRTON 122: The cell theory, BAKER 19: Protoplasm, CHAMBERS 68; Cain 60; Bone cytology, Hancox 143; Ganglion cell in the kitten, GATENBY & MOUSSA 111; Blood-pigment, Fox 107; Erythrocytes of lower vertebrates, BREINDL 44.

Histology.—Soviet histology, Khlopin 185; Morphological changes provoked by electric current in eyes of vertebrates, Kamniev 180; Osteogenesis in some vertebrates, Moncanut 245.

#### PHYSIOLOGY

General Works.—Influence on organism of the milk gland reflexes in goat, Gratchev 132; Cytophysiology of fertilization, Monroy 247; The role of physiological gradients, Anokhin 10; Physiology and animal psychology, ALVERDES 4; Temperature relation to life processes, Precht 289.

Nutrition.—Animal nutrition GILBERT 119.

Respiration.—Tissue respiration inhibited by cyanide in invertebrates, Robbie 295; Gas-exchange measurements, Fill 103.

Osmotic Relations.—Osmosis in terrestrial invertebrates, Rouschal 305.

Nervous System.—Importance of the investigations of Pavlov on nervous activity, Mashkovtzev 228; Palatnik 267; Experiments on sympathetic nervous system, Kibyakov 186; Experimental epilepsy, Krushinski 200; Neuro muscular transmissions in invertebrates, Katz 181; Effect of pain on organism, Dionesov 92; Internal factors in the development of nervous function, Anokhin 9; Neuromuscular transmission in invertebrates, Bacq 15; Influence of nervous reflexes on the regulation of lactation, Gratchev 133.

Hormones.—Tzarapkin 360; Thyrotrope and gonadotrope hormones, Binder 34; Fish melanophore as test for hormone, Sladecek 332; Metabolism of corpus luteum, Kalantarova 179.

Bio-Chemistry.—Influence of potassium in animal body, Zwemer 383; Ammonium content in various animal groups, Florkin, Houet & Renwart 106; Chemistry of muscles, Yakovlev 381.

Venoms.—Action of the Indian cobra's venom on laboratory animals, Talizin, Tchishova, Ptchelkina 346; Cytotoxins produced in rats, Harris 147.

Electric and Luminous Phenomena.—Rugh 306.

Grafting.—Grafting of fresh and boiled tissue, Hama 142; Grafting of nervous tissue, Sutulov 345.

#### REPRODUCTION AND SEX

Reproduction.—Reproduction in relation to nutrition, Mason 229; Reproduction and natural history of sex, Bounoure 38; Ponse 285; Animal breeding seasons, Marshall 225.

Hybridisation.—Anderson 6.

Sex Determination.—Physiological determination of sex, Shreder 329.

Intersex.—Intersex and sexual differentiation in vertebrates, Ponse 286.

#### DEVELOPMENT

Egg.—Sacarrão 308; Action of ultra-violet rays on eggs, Giese 118.

Embryology.—Embryology and evolution, Matveev 233; Factors in animal fertilisation, Bielig & Medem 33.

Chemical Embryology and Teratogeny.
—Barth 25: Landauer 204.

Growth.—Various factors in growth and development, Costello 76; Morpho-physiologic development of vertebrates, Maschkowzeff 227; Ontogenetic development of the vegetative nervous system of vertebrates, Knorre 190.

Organisers.—Self-differentiation in Amphibia and sea urchins, Ubisch 361.

#### **EVOLUTION AND GENETICS**

Works.—Morphological changes occurring in animals in connection with Engels and Mitchurin theories, Sakharov 311; Lysenko controversy, Rose & Jewell 303; Mutations, Grandjean 131; Biogenetic principles and ontogenesis, ARSHAVSKI 13; Inbreeding theory, FISHER 104; Heat in evolutionary process, Cowles 77; Selection and differentiation, Buzzati-Traverso 57; Theory of evolution and origin of freshwater fauna, BIRSHTEIN 36; Mendelism ALVERDES 5; Morphogeny, growth and evolution, Abeloos 1; Evolution of mind, LASHLEY 208: Problem of adaptation, Klaauw 188; Evolution, WATSON 372; Selection, MATHER & HARRISON 231; Time factor in animal evolution, Romer 300; Connection of genetics, paleontology and evolution, Muller 251; The modern Darwinism, HEBERER 150; Evolution of colour

vision, Pumphrey 290; Typogenesis, Herberger 149; Rates of evolution, Simpson 331; Darwinian and modern natural selection, Muller 249; Barber 23; Günther 139; Boyd 41; Wintrebert 375, 376; Trembley 357; Oakley & Wood 263; Mayr 236; Goldschmidt 127; Florkin 105; Darlington 83.

Phylogeny.—Phylogeny and relict behaviour, Krumbiegel 198; Relation of soil to phylogenesis of land invertebrates, Gilyarov 121.

Evolution of Organs.—Evolution of heart muscle in vertebrates, Kotchetov 197.

Adaptations.-WRIGHT 380.

Protective Coloration.—Differences in colour of birds and mammals in relation to climatic regions, Dementiev 89; Colour of desert animals, Cooper 74.

Mimiery.—CHOPARD 69.

Genetics.—Embryonic development and genetics, Gloor 124; Soviet genetics, Huxley 166; Tracers in biology and genetics, Wagner 369; Relation of gene and character, Stern 340; Darlington & Mather 85; Glass 123; Koller 194; Mather 230; Muller 250; Sonneborne 334.

Chromosome Problems.—Electron microscopy of chromosomes, Pease & Baker 274; Chromosomes, Darlington 84.

Experimental.—Mutations and carcinogen, Strong 343.

#### ECOLOGY AND HABITS

General Works.—Evolution of Biotopes, Wautier 374; Ecology of South Wales, Jones 176; Tortonese 356; Tischler 355; Verweing 366.

Ecological Associations.—Cave fauna, Italy, Lanza 206; Notes on biocenosis, Wautier 373; Significance of food-interrelations in structure of marine benthal biocenoses, Turpaeva 359.

Phenology.—Phenology in Australia, Gentilli 116.

Population Studies.—Dynamics of the animal population, Sevértzov 326; Population and evolution, WRIGHT 379; Ecology of populations, HUTCHINSON & DEEVEY 165; Factors limiting Populations, MACAN 220. Symbiosis.-Lucas 215.

Hibernation.—KALABUKHOV 178.

Behaviour.—Krumbiegel 199; Thorpe 353; Rabaud 291.

Economics.—Animal humus production, Franz & Leitenberger 109; Animals as currency, Pax 272.

Marine Ecology.—Composition of the littoral fauna in the coasts of southeastern Kamtchatka. Vinogradov 367; Nourishment of different groups of benthic organisms in Barents Sea, Russia. Turpaieva 358; Characteristic of different zones in the Okhotsk Sea. Ushakov 363; Fauna of Helgoland sea-bridge, Caspers 63; Penetration of marine fauna, Durchon 98; Appearance of warm-water and salt-water animals in the eastern Baltic fauna during the past fifty years, Nicolaev 256.

Fresh-water Ecology.-Water level changes in some German lakes, THIENE-MANN 352; Salt as protection of freshwater animal against short waves, STANDER 337; Principles of mass appearance of organisms in different conditions of water reservoirs, Shadin 327; Aquatic powers of terrestrial animals, Schaerffenberg 314: Equatorial lakes biology, Damas 80; Limnology of some Italian lakes, MORAN-DINI 248; A moorland pond fauna, MACAN 221; Fauna and limnology of Lago Massaciuccoli, Italy, Brunelli & Cannicci 52; Stream fauna in South Wales, Jones 175; Michigan ponds fauna, Kenk 183; Bomb-crater pond fauna in England, WARWICK 371; Ecology of the Elbe river estuary, CASPERS 64; Relation of embryos of some freshwater animals with Cyanophyceae, Gurevitch 138; Anabiosis of zoobentos in relation to thermic changes in the lake Taimyr, Russia, GREEZE 134: Relation of Dneper fauna to water constructions, Beling 30: Water supply fauna, Hastings 148.

#### DISTRIBUTION

#### GEOGRAPHICAL

General.—Faunistic complexes and zoogeography, Nikolsky 258; Different composition of the parasitic fauna as an indicator in the zoogeographical distribution and origin of the hosts,

Dogel 95; Zoogeography of Mediterranean, Lattin 209; Zoogeography of Preamurland, Russia, Kurentzov 202.

Expeditions.—Expedition to Cocos-Keeling Islands, GIBSON-HILL & OTHERS 117; Zoological diarry of Père David in China, DAVID 86; Expedition to Venezuela, BEBBE 27.

#### 1. LAND AND FRESHWATER

#### PALAEARCTIC REGION

British Isles.—British animals, Darling 82; British fauna, Pike 279; Fauna in the Welsh Dee tributaries, Badcock 17.

France.—Vertebrates of Central France, Cantuel 62.

Germany.—Vertebrates of Berlin, HERTER 159; Fauna of environs of Berlin, HISSE 160.

Holland.—Zuiderzee fauna, Dam-MERMAN 81.

Hungary.—Invertebrates of Komitates Bars, Hungary, Dudich 97.

Italy.—Fauna of the Lago di Sabaudia, Italy, Brunelli & Can-NICCI 51; Planeton distribution in Lago Maggiore, Baldi 20.

Africa.—Invetebrates of Sahara, SEURAT 325.

China.—Fauna of the Kunming lake, China, TCHANG-SI 348.

#### ORIENTAL REGION

Borneo.—Fauna of N. Borneo, BANKS 22.

AUSTRALIAN REGION AND POLYNESIA

New Zealand.—New Zealand fauna, Powell 288.

#### NEARCTIC REGION

United States.—Fish and invertebrates of Indiana, SHOCKLEY 328.

#### SOUTH AMERICA

Venezuela.—Faunistics of Venezuela, Beebe 28.

#### 2. MARINE

General.—Problems in marine biogeography, ZENKEVITCH 382.

#### ARCTIC

Iceland.—Marine bottom fauna in Faxa Bay, Iceland, Spärck 336.

Russia.—Invertebrates of the Northern Seas in Soviet Union, GAYEVSKAYA & OTHERS 113.

#### NORTH TEMPERATE

Atlantic.—Biological map of Atlantic, Hentschel 157; Fauna of Santander Bay, Martin & Crehuet 226; Marine animals on West Africa coast, Bruun 53.

Mediterranean.—Faunistics of the Bay of Castiglione, DIEUZEIDE 90; Bottom fauna of the Bay of Naples, BACCI 14.

North Pacific.—Benthos of Ago-wan, Japan, Miyadi 244; Pacific fauna, RICKETTS & CALVIN 294.

#### TROPICAL

Polynesian Seas. New Zealand oceanography, HEFFORD 152.

#### GEOLOGICAL

#### PALEONTOLOGY

General Works.—Quantitative Paleoontology, Burma 54; Paläozoologie und Paläobiologie, Ehrenberg 100; Programme of investigation in marine paleontology, Roger 293; Paleontology and Phylogeny, Dietrich 91; Statistical methods in paleontology, Marsal 224; Progress in adaptation of fossils. Colbert 71; Selection, orthogenesis and paleontology, Jepsen 171; Paleontology and Theory of descent, Schouppe 321; Miller 242; Newell 255; Rau 292.